



802.11g Wireless 3G Mobile Router

Model # AR360W3G

User's Manual

Ver. 1A

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1. Introduction

Congratulations on your purchase of this 802.11g Wireless 3G Router. This product is specifically designed for business travelers or SOHO needs. It provides an extended WAN solution, 3G Mobile PC Card for Internet surfing and is easy to configure and share the Internet even for non-technical users. Instructions for installing and configuring this product can be found in this manual. Before you install and use this product, please read this manual carefully for proper operation of this product.

1.1 Functions and Features

Basic Functions

- **NAT Routing**
Connects multiple computers to a broadband (cable or DSL) modem or an Ethernet router to surf the Internet.
- **Equipped a 3G Mobile PC card slot**
Allows you to share the wireless connectivity wherever Mobile Broadband Internet access is available
- **Supported WAN Types**
The router supports the following WAN types: 3G, Static IP, Dynamic IP, PPPoE, PPTP, and Dynamic IP with Road Runner.
- **Firewall**
All unwanted packets from outside intruders are blocked to protect your Intranet.
- **DHCP Server Supported**
All of the networked computers can retrieve TCP/IP settings automatically from this product.
- **Web-Based Configuration**
Configurable through any networked computer's web browser using Netscape or Internet Explorer.

Security Functions

- **Packet Filter Supported**
Packet Filter allows you to control access to a network by analyzing the incoming and outgoing packets and allowing or denying them access based on the IP address of the source and destination.
- **Domain Filter Supported**
 - Lets you prevent users from accessing specified domains through this device.
- **URL Blocking Supported**
 - Lets you prevent users from accessing specified URLs through this device.

- **VPN Pass-Through**
 - Support VPN pass-through.
- **SPI Mode Supported**
 - When SPI Mode is enabled, the router will check every incoming packet to determine if the packet is valid.
- **DoS Attack Detection Supported**
 - When this feature is enabled, the router will detect and log any DoS attack that comes from the Internet.

Advanced Functions

- **System Time Supported**
 - Allows you to synchronize the system time with a network time server.
- **E-mail Alert Supported**
 - The router can send e-mail alerts to a specified e-mail address.
- **Dynamic DNS Supported**
 - Supports dyndns, TZO.com, and dhs.org.
- **SNMP Supported**
 - Supports basic SNMP functions.
- **Routing Table Supported**
 - Supports static routing table.
- **Schedule Rule Supported**
 - Schedule the time when services such as virtual server or packet filter will be active.

Other Functions

- **UPNP (Universal Plug-and-Play) Supported**

2. Hardware Installation

2.1 Connect the Router

Note: Prior to connecting the router, be sure to power off your computer and the router.

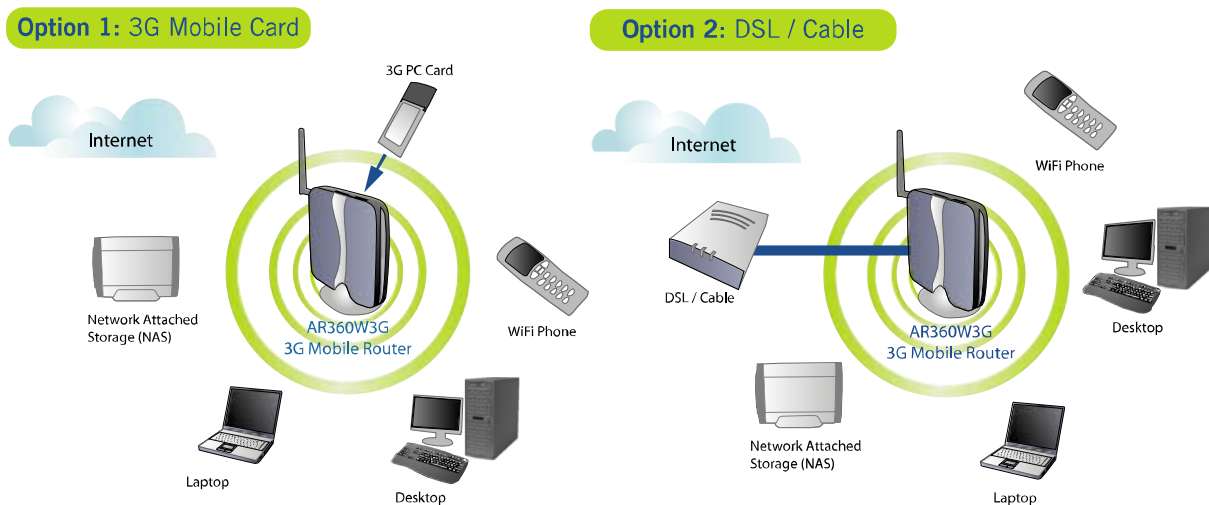
Step 1 (Option1) Insert the 3G card into the card slot on the router facing up,
(Option2) or, connect your DSL/Cable modem to the WAN port on the router.

Step 2 Connect one end of an Ethernet cable to your computer's network card and connect the other end to the **LAN** port on the router.

Step 3 Power on the router by connecting one end of the supplied power adapter to the power jack of the router and connecting the other end to an electrical outlet. All the LEDs will flash ON and OFF as the Wireless WAN Mobile Broadband Router performs initialization and Internet connection processes. This will take a few minutes.

Step 4 Power on your computer.

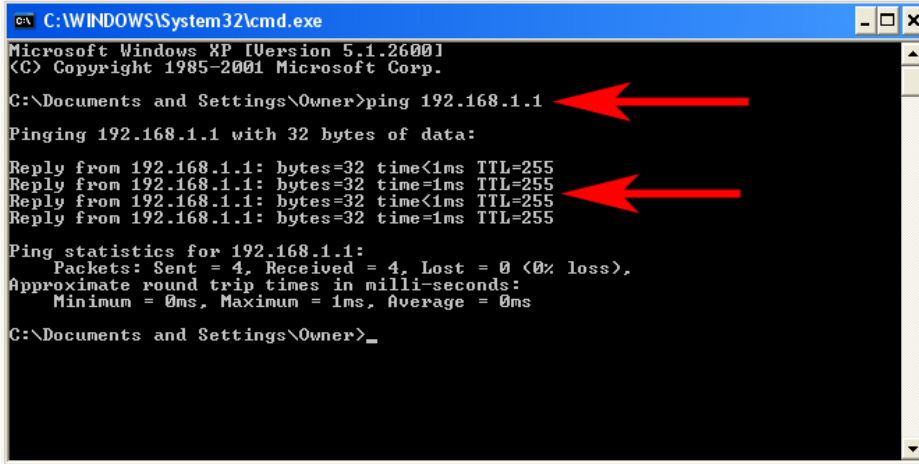
Step 5 When complete, the following LEDs will illuminate green: Status, WAN, LAN, and WiFi.



2.2 Verify Connection to Router

Step 1 Go to **Start, Run**, type **command** (for Windows 95/98/ME) or **cmd** (for Windows 2000/XP) and click **OK**. For Windows Vista, click start and type in “command prompt” in the search box. Click on **Command Prompt** in the search results box. You will see the command prompt as below.

Step 2 Type **ping 192.168.1.1** and press **Enter**. You should get four reply responses back.



```
C:\WINDOWS\System32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Owner>ping 192.168.1.1
Pinging 192.168.1.1 with 32 bytes of data:

Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time=1ms TTL=255
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time=1ms TTL=255

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\Documents and Settings\Owner>_
```

The screenshot shows a Windows XP Command Prompt window. The title bar reads "C:\WINDOWS\System32\cmd.exe". The window content shows the command prompt interface with the command "ping 192.168.1.1" entered and executed. The output shows four successful replies from 192.168.1.1, each with a time less than 1ms and a TTL of 255. Below the replies, the ping statistics are displayed, showing 4 packets sent, 4 received, and 0 lost. The round trip times are also shown: Minimum = 0ms, Maximum = 1ms, and Average = 0ms. Two red arrows point to the command and the first two replies.

Step 3 If you get **Request timed out**, or **Destination host unreachable**, double-check the network cable connection between the computer and the router and try **Step 2** again. If you still encounter problem, go to the next step; otherwise proceed to **Section 3, Configure the Router**.

Step 4 For Windows 2000/XP/Vista, type **ipconfig/release** and press **Enter**.

```
C:\WINDOWS\System32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Owner>ipconfig/release

Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : 
    IP Address. . . . .               : 0.0.0.0
    Subnet Mask . . . . .             : 0.0.0.0
    Default Gateway . . . . .         : 

C:\Documents and Settings\Owner>
```

Step 5 Type **ipconfig/renew** and press **Enter**. You should get an IP address of **192.168.1.x** (where **x** is a number between 2 - 254). Proceed to **Section 3, Configure the Router**. If you don't get an IP address, reset the router by holding in the reset button at the back of the router for 10 seconds while it is ON and try **ipconfig/renew** again.

```
C:\WINDOWS\System32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Owner>ipconfig/renew

Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : 
    IP Address. . . . .               : 192.168.1.5
    Subnet Mask . . . . .             : 255.255.255.0
    Default Gateway . . . . .         : 192.168.1.1

C:\Documents and Settings\Owner>
```

Step 6 For Windows 95/98/ME go to **Start, Run**, type **winipcfg** and click **OK**.

Step 7 Select your network card from the drop-down menu and click **Release**.

IP Configuration

Ethernet Adapter Information

Realtek 8139-series PCI NIC

Adapter Address: 00-A0-0C-C7-64-5C

IP Address: 0 . 0 . 0 . 0

Subnet Mask: 0 . 0 . 0 . 0

Default Gateway:

OK Release Renew

Release All Renew All More Info >>

Step 8 After your IP address is released, click **Renew**. You should get an IP address of **192.168.1.x** (where **x** is a number between 2 - 254). If you don't get an IP address, reset the router by holding in the reset button at the back of the router for 10 seconds while it is ON and try **Renew** again.

IP Configuration

Ethernet Adapter Information

Realtek 8139-series PCI NIC

Adapter Address: 00-A0-0C-C7-64-5C

IP Address: 192.168.1.101

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

OK Release Renew

Release All Renew All More Info >>

3. Configure the Router

3.1 Setup Wizard

Step 1 Open the web browser and type **192.168.1.1** in the URL Address field and press **Enter**.

Step 2 Enter **admin** for the password field and click **Log in**.

System Status

Item	WAN Status	Sidenote
Remaining Lease Time	999:49:28	
IP Address	10.0.0.114	
Subnet Mask	255.255.255.0	
Gateway	10.0.0.1	
Domain Name Server	68.87.76.178, 10.0.0.1	


Item	WLAN Status	Sidenote
Wireless mode	Disable	

Item	3G Status	Sidenote
Card Info	No Card Detected	
Link Status	Disconnected	
Signal Strength	N/A	

Statistics of WAN	Inbound	Outbound
Octets	1514147	248951
Unicast Packets	1640	1305
Non-unicast Packets	0	0
Drops	0	0
Error	0	0

[Help](#) [Refresh](#)

Step 3 Click on **Wizard** from the main menu and click **Next** to begin the Setup Wizard.



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WIRELESS 3G MOBILE ROUTER

- ▶ Status
- ▶ **Wizard**
- ▶ Basic Setting
- ▶ Forwarding Rules
- ▶ Security Setting
- ▶ Advanced Setting
- ▶ Toolbox

[Log out](#)

System Status

Item	WAN Status	Sidenote
Remaining Lease Time	999:47:37	Renew
IP Address	10.0.0.114	Release
Subnet Mask	255.255.255.0	
Gateway	10.0.0.1	
Domain Name Server	68.87.76.178, 10.0.0.1	

Item	WLAN Status	Sidenote
Wireless mode	Disable	

Step 4 You can change the password of the router here if you like. The default password is **admin**. Note: If you happen to forget your new password, you can reset the password back to admin by holding down the reset button on the back of the router for 10 seconds.

Setup Wizard - Change Password

Old Password

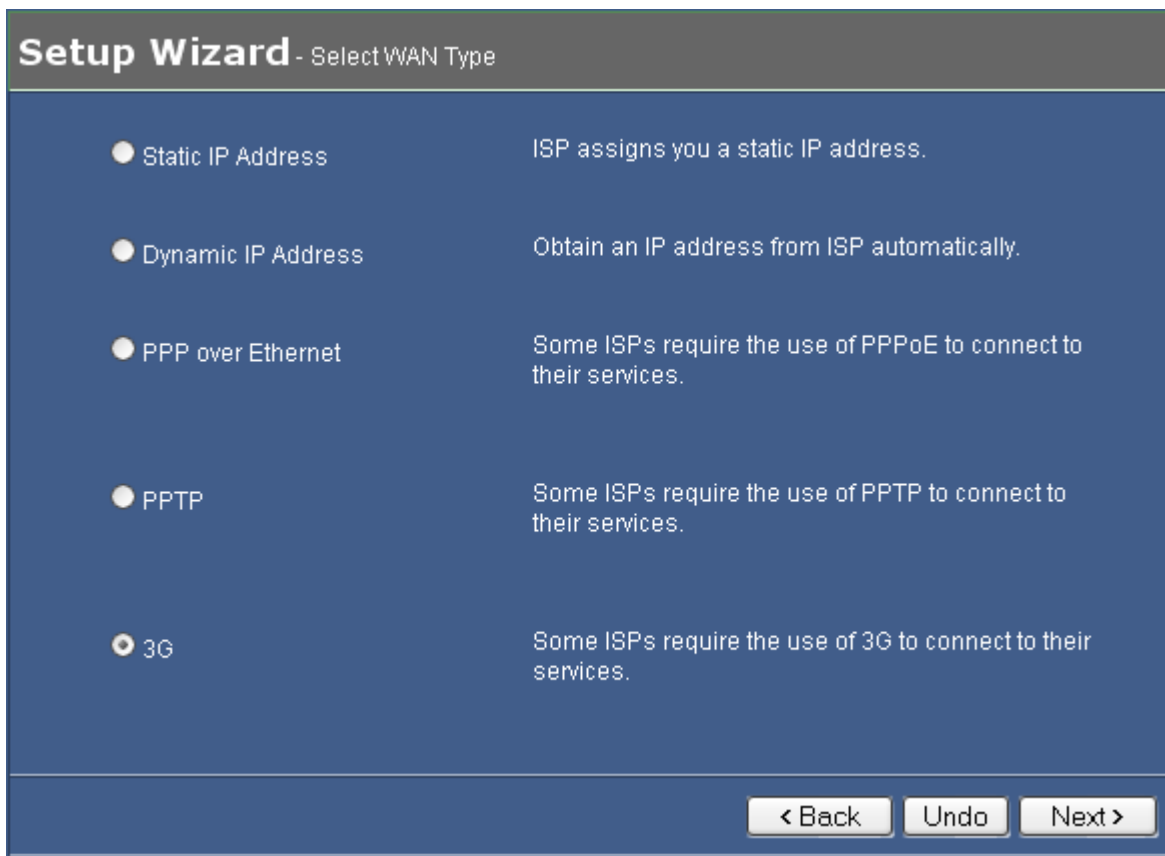
New Password

Reconfirm

Back

Next

Step 5 Select your **WAN Type** (Internet Connection Type) and click **Next**. If you are not sure what your Internet Connection Type is, please contact your Internet Service Provider (ISP) for assistance.



The image shows a 'Setup Wizard' window with the title 'Setup Wizard - Select WAN Type'. It contains five radio button options, each with a description to its right. The options are: 'Static IP Address' (ISP assigns you a static IP address.), 'Dynamic IP Address' (Obtain an IP address from ISP automatically.), 'PPP over Ethernet' (Some ISPs require the use of PPPoE to connect to their services.), 'PPTP' (Some ISPs require the use of PPTP to connect to their services.), and '3G' (Some ISPs require the use of 3G to connect to their services.). The '3G' option is selected. At the bottom right, there are three buttons: '< Back', 'Undo', and 'Next >'.

Option	Description
<input type="radio"/> Static IP Address	ISP assigns you a static IP address.
<input type="radio"/> Dynamic IP Address	Obtain an IP address from ISP automatically.
<input type="radio"/> PPP over Ethernet	Some ISPs require the use of PPPoE to connect to their services.
<input type="radio"/> PPTP	Some ISPs require the use of PPTP to connect to their services.
<input checked="" type="radio"/> 3G	Some ISPs require the use of 3G to connect to their services.

< Back Undo Next >

3G Mobile PC Card

If you are going to use a 3G card, select **3G** and click **Next**. Proceed to **Step 5a**.

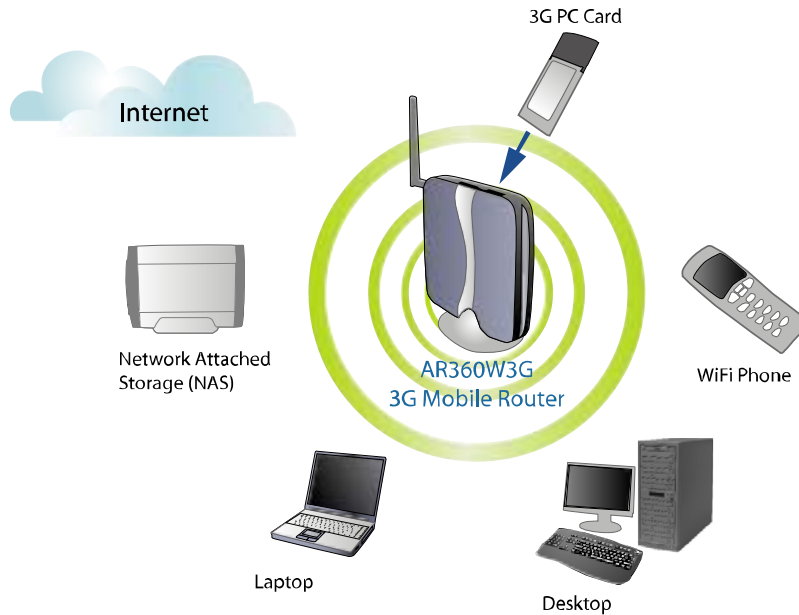
Cable Modem

If you use cable modem, select **Dynamic IP Address** and click **Next**. Proceed to **Step 5b**.

DSL

If you use DSL, select **PPP over Ethernet** and click **Next**. Proceed to **Step 5c**.

Option 1: 3G Mobile Card



For 3G Mobile PC Card Users:

Step 5a Enter the Phone number, Username, and Password given to you by your internet service provider into the appropriate boxes. Click **Next** when done and proceed to **Step 6**.

Setup Wizard - 3G

▶ LAN IP Address	192.168.1.1
▶ APN	
▶ Pin Code	
▶ Phone Number	555
▶ Username	username@cingular.com
▶ Password	password
▶ Maximum Idle Time	300 seconds <input type="checkbox"/> Auto-reconnect

< Back Undo **Next >**

Below are the examples for Cingular, Verizon, and Sprint:

Cingular

Phone Number: *99***1#

Username: xxx@cingulargprs.com

Password: xxxxx

Verizon

Phone Number: #777

Username: xxx@vzw3g.com

Password: xxxxx

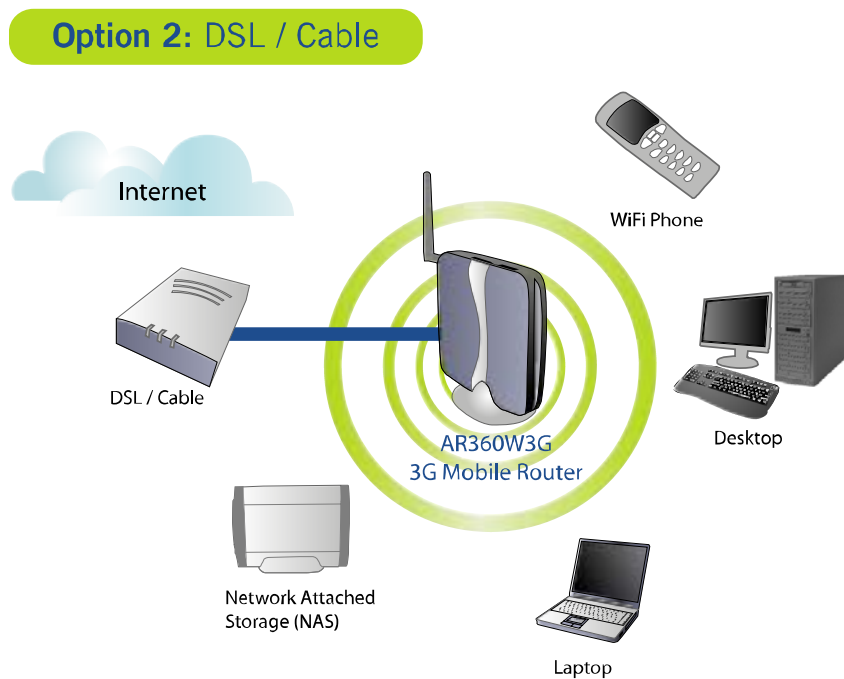
Sprint

Phone Number: #777

Username: xxx@sprintpcs.com

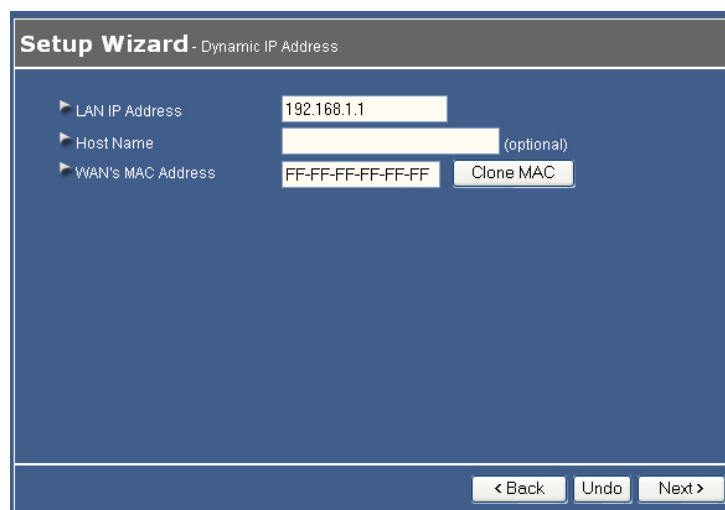
Password: xxxxx

If you are not sure about your account information, please contact your 3G Mobile service provider.



For Cable Modem Users:

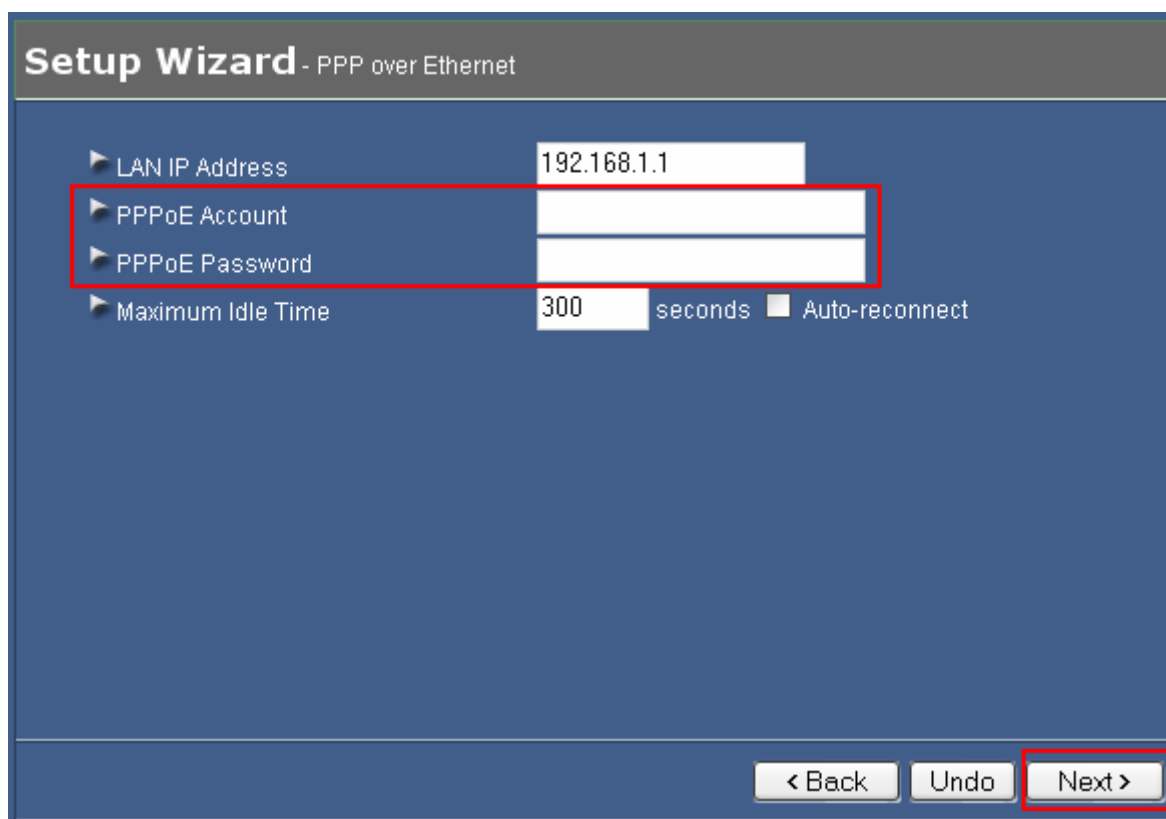
Step 5b If your ISP has provided you with a host name, enter it in the **Host Name** field. If your ISP requires a registered MAC Address, click on the **Clone MAC** button. Click **Next** when done and proceed to **Step 6**.



The image shows a 'Setup Wizard' window titled 'Dynamic IP Address'. It contains three input fields: 'LAN IP Address' with the value '192.168.1.1', 'Host Name' which is empty and marked as '(optional)', and 'WAN's MAC Address' with the value 'FF-FF-FF-FF-FF-FF'. To the right of the MAC address field is a button labeled 'Clone MAC'. At the bottom of the window are three buttons: '< Back', 'Undo', and 'Next >'.

For DSL Users:

Step 5c Fill in the applicable fields according to the information provided by your ISP. Click **Next** when done and proceed to **Step 6**.



The image shows a 'Setup Wizard' window titled 'PPP over Ethernet'. It contains four input fields: 'LAN IP Address' with the value '192.168.1.1', 'PPPoE Account' which is empty, 'PPPoE Password' which is empty, and 'Maximum Idle Time' with the value '300' and the unit 'seconds'. There is also a checkbox for 'Auto-reconnect' which is currently unchecked. A red rectangle highlights the 'PPPoE Account' and 'PPPoE Password' fields. At the bottom of the window are three buttons: '< Back', 'Undo', and 'Next >'. The 'Next >' button is also highlighted with a red rectangle.

Note: Depending on the ISP, you may need to include the domain name with your account name.

Example: **username@sbcglobal.net**

However, some DSL service providers may use Dynamic IP Address instead of PPP over Ethernet. You can contact your ISP to find out the correct WAN Type information.

Step 6 If you wish to share access to your router wirelessly, click the radio button for **On** next to wireless radio and click **Next**.

The screenshot shows a web-based configuration interface titled "Setup Wizard - Wireless Settings". It features three expandable sections: "Wireless Radio", "SSID", and "Channel". The "Wireless Radio" section is expanded, showing two radio buttons: "On" (which is selected) and "Off". The "SSID" section is also expanded, showing a text input field containing the word "default". The "Channel" section is expanded, showing a dropdown menu with "0" selected. At the bottom right of the interface, there are three buttons: "Back", "Undo", and "Next". The "Next" button is highlighted with a red rectangular box.

Step 8 Choose your wireless security settings. For a secure network, we recommend **WPA-PSK** with **TKIP**. Your passphrase must be at least eight characters long and can contain numbers and letters. Click **Next** after choosing your settings.

Setup Wizard - Wireless Settings

▶ Security

WPA-PSK ▼

▶ Encryption Type:

☒ TKIP ☐ AES

▶ Passphrase:

12345678

Back

Undo

Next

Step 9 Click **Apply Settings** to save your settings and complete the configuration.

Setup Wizard - Please Confirm the information below

WAN Setting	
▶ WAN Type	3G
▶ Host Name	3G-Router
▶ WAN's MAC Address	00-50-18-48-11-24

Wireless Setting	
▶ Wireless	Enable
▶ SSID	default
▶ Channel	0
▶ Security	WPA-PSK

Do You want to proceed the network testing? ☐ Yes ☒ No

Back

Discard

Apply Settings

4. Verify Connection Status and Wireless Settings

4.1 Checking the System Status

View the System Status to verify your Internet connection.

Step 1 Login to the router's web configuration page and click on the **Status** link from the Main Menu.

Step 2 Verify that the **WAN Status** displays valid numbers (instead of all 0's).

3G Mobile PC Card users, make sure that the 3G card is properly inserted in the card slot on the router. Under **3G Status** section, make sure your 3G card information is correctly displayed, and **Link Status** should be Connected. If not, click the **Refresh** button until you see numbers appear.

WIRELESS 3G MOBILE ROUTER

System Status

Item	WAN Status	Sidenote
IP Address	68.26.76.40	3G
Subnet Mask	255.255.255.255	
Gateway	68.28.57.69	
Domain Name Server	68.28.58.11, 68.28.50.11	

Item	WLAN Status	Sidenote
Wireless mode	Enable	(AP only mode)
SSID	default	
Channel	11	
Security	None	
MAC Address	00-50-18-21-C1-C4	

Item	3G Status	Sidenote
Card Info	3.3V CardBus card	
Link Status	Connected	
Signal Strength	N/A	

If you use **Cable modem** and you see all 0's, click on the **Renew** button.

System Status		
Item	WAN Status	Sidenote
Remaining Lease Time	00:00:00	Renew
IP Address	0.0.0.0	
Subnet Mask	0.0.0.0	
Gateway	0.0.0.0	Unreachable
Domain Name Server	0.0.0.0	
Statistics of WAN		
	Inbound	Outbound
Octets	2840	2068
Unicast Packets	6	0
Non-unicast Packets	6	8
View Log... Clients List... Help Refresh		
Device Time: Sat Sep 01 02:07:07 2018		

If you use **DSL** and you see all 0's, click on the **Connect** button.

System Status		
Item	WAN Status	Sidenote
IP Address	0.0.0.0	PPPoE
Subnet Mask	0.0.0.0	
Gateway	0.0.0.0	
Domain Name Server	0.0.0.0	
Connection Time	-	Wait for traffic Connect
Item	WLAN Status	Sidenote
Wireless mode	Disable	
Item	3G Status	Sidenote
Card Info	3.3V CardBus card	
Link Status	Disconnected	
Signal Strength	N/A	
Statistics of WAN		
	Inbound	Outbound
Octets	0	0
Unicast Packets	0	0
Non-unicast Packets	0	0
Drops	0	0
Error	0	0
View Log... Clients List... Help Refresh		

Step 3 Once you clicked the **Renew** or **Connect** button, you should see some numbers under **WAN Status**. This means you have successfully established Internet connection.

System Status		
Item	WAN Status	Sidenote
Remaining Lease Time	23:56:00	<input type="button" value="Renew"/>
IP Address	192.168.2.101	<input type="button" value="Release"/>
Subnet Mask	255.255.255.0	
Gateway	192.168.2.1	
Domain Name Server	192.168.2.1	

Statistics of WAN	Inbound	Outbound
Octets	5403	2774
Unicast Packets	20	0
Non-unicast Packets	14	11

Device Time: Sat Sep 01 02:11:12 2018

Note: If you still see all 0's after clicking on the **Renew** or **Connect** button, try the troubleshooting tips at the end of this manual.

4.2 Connecting to the Router Wirelessly

Below are the default wireless settings of the router. You must configure your wireless network adapter to the same settings in order to establish a wireless connection with the router. Please refer to your wireless network adapter's manual on how to configure these settings.

SSID: **default**

Operating Mode: **Infrastructure**

Authentication: **Open System**

Channel #: **11**

WEP: **disabled**

You may need to restart your computer after establishing a signal strength/link quality with the router.

5. Web Configuration

5.1 Accessing the Web Configuration Utility

You may configure the router through the web browser using the Web Configuration Utility.

Step 1 Open the web browser and type in **192.168.1.1** and press **Enter**.

Step 2 Enter **admin** for the password field and click **Log in**.

The screenshot shows the AIRLINK 101 Web Configuration Utility interface. On the left, there is a login box with the text "System Password" and "(default: admin)" and a "Log in" button. The main area is titled "System Status" and contains four tables:

Item	WAN Status	Sidenote
IP Address	0.0.0.0	PPPoE
Subnet Mask	0.0.0.0	
Gateway	0.0.0.0	
Domain Name Server	0.0.0.0	
Connection Time	-	Wait for traffic


Item	WLAN Status	Sidenote
Wireless mode	Disable	

Item	3G Status	Sidenote
Card Info	3.3V CardBus card	
Link Status	Disconnected	
Signal Strength	N/A	

Statistics of WAN	Inbound	Outbound
Octects	0	0
Unicast Packets	0	0
Non-unicast Packets	0	0
Drops	0	0
Error	0	0

At the bottom of the main area, there are "Help" and "Refresh" buttons.

You will see the Web Configuration Utility's home page (System Status). You can navigate through the utility from the Main Menu located at the left side of the page.



networkingsolutions

- Status
- Wizard
- Basic Setting
- Forwarding Rules
- Security Setting
- Advanced Setting
- Toolbox
 - Log out

WIRELESS
3G MOBILE ROUTER

System Status

Item	WAN Status	Sidenote
Remaining Lease Time	999:59:57	Renew
IP Address	10.0.0.114	Release
Subnet Mask	255.255.255.0	
Gateway	10.0.0.1	
Domain Name Server	68.87.76.178, 10.0.0.1	

Item	WLAN Status	Sidenote
Wireless mode	Disable	

Item	3G Status	Sidenote
Card Info	3.3V CardBus card	
Link Status	Disconnected	
Signal Strength	N/A	


Statistics of WAN	Inbound	Outbound
Octects	1690125	312869
Unicast Packets	2304	2018
Non-unicast Packets	0	0
Drops	0	0
Error	0	0

[View Log...](#)
[Clients List...](#)
[Help](#)
[Refresh](#)

5.2 Basic Setting

5.2.1 Primary Setup

You can set the router's LAN IP address and change the WAN type (Internet Connection Type) on this page.



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WIRELESS 3G MOBILE ROUTER

► Status

► Wizard

► Basic Setting

- Primary Setup
- DHCP Server
- Wireless
- Change Password

► Forwarding Rules

► Security Setting

► Advanced Setting

► Toolbox

[Log out](#)

Primary Setup

Item	Setting
► LAN IP Address	<input type="text" value="192.168.1.1"/>
► LAN NetMask	<input type="text" value="255.255.255.0"/>
► WAN's MAC Address	<input type="text" value="00-50-18-48-11-24"/> Save Clone MAC
► WAN Type	<div style="display: flex; flex-direction: column; gap: 5px;"> <div><input checked="" type="radio"/> Static IP Address</div> <div><input type="radio"/> Dynamic IP Address</div> <div><input type="radio"/> Dynamic IP Address with Road Runner Session Management</div> <div><input type="radio"/> PPP over Ethernet</div> <div><input type="radio"/> PPTP</div> <div><input type="radio"/> 3G</div> </div> <p style="font-size: small; margin-top: 5px;">ISP assigns you a static IP address. Obtain an IP address from ISP automatically. Dynamic IP Address with Road Runner Session Management is a WAN connection used in Australia (eg. Telstra BigPond). Some ISPs require the use of PPPoE to connect to their services. Some ISPs require the use of PPTP to connect to their services. 3G</p>
► Host Name	<input type="text" value="3G-Router"/> (optional)
► MTU	<input type="text" value="1500"/>
► Auto-reconnect	<input type="checkbox"/> Enable
► Primary DNS	<input type="text" value="0.0.0.0"/>
► Secondary DNS	<input type="text" value="0.0.0.0"/>

[Save](#)
[Undo](#)
[Virtual Computers...](#)
[Help](#)

LAN IP Address: The router's default IP address is **192.168.1.1**. You can change this address to suit your existing network.

WAN Type: Displays the current WAN type (Internet Connection Type) selected.

Virtual Computers

Virtual Computers

ID	Global IP	Local IP	Enable
1	<input type="text"/>	192.168.1. <input type="text"/>	<input type="checkbox"/>
2	<input type="text"/>	192.168.1. <input type="text"/>	<input type="checkbox"/>
3	<input type="text"/>	192.168.1. <input type="text"/>	<input type="checkbox"/>
4	<input type="text"/>	192.168.1. <input type="text"/>	<input type="checkbox"/>
5	<input type="text"/>	192.168.1. <input type="text"/>	<input type="checkbox"/>
6	<input type="text"/>	192.168.1. <input type="text"/>	<input type="checkbox"/>
7	<input type="text"/>	192.168.1. <input type="text"/>	<input type="checkbox"/>
8	<input type="text"/>	192.168.1. <input type="text"/>	<input type="checkbox"/>

[Save](#)
[Undo](#)
[Close](#)

The Virtual Computer function enables you to map the Global IP (WAN IP address) assigned by your ISP to the Local IP (LAN IP address) of your computer. This can only be used with Static IP and Dynamic IP WAN types.

Global IP: Enter the global IP address (WAN IP) assigned by your ISP.

Local IP: Enter the local IP address (LAN IP) of your computer you wish to map to.

Enable (check box): Check this box to enable the Virtual Computer function.

Click **Save** to save any changes or click **Undo** to cancel any changes.

5.2.2 DHCP Server

This page allows you to configure the DHCP service of the router. DHCP assigns dynamic IP address to all the network devices connected to the router.

DHCP Server	
Item	Setting
▶ DHCP Server	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
▶ Lease Time	1440 Minutes
▶ IP Pool Starting Address	100
▶ IP Pool Ending Address	199
▶ Domain Name	

DHCP Server: Select either to **Enable** or **Disable** the DHCP service (Default is **Enable**).

IP Pool Starting Address: Enter the start of the IP pool range.

IP Pool Ending Address: Enter the end of the IP pool range.

Domain Name: Enter the domain name of your network (optional).

Click on the **More>>** button to see the following fields. (**The following fields are optional**).

Primary DNS: Enter the IP address of your network's Primary DNS server.

Secondary DNS: Enter the IP address of your network's Secondary DNS server.

Primary WINS: Enter the IP address of your network's Primary WINS server.

Secondary WINS: Enter the IP address of your network's Secondary WINS server.

Gateway: Enter the IP address of your network's Gateway.

Click **Save** to save any changes or click **Undo** to cancel any changes.

Clients List

The Clients List displays all the DHCP clients currently connected to the router.

DHCP Clients List			
IP Address	Host Name	MAC Address	Select
192.168.1.144	COMPUTER	00-0C-6E-7D-0C-6E	<input type="checkbox"/>
<div>Wake upDeleteBackRefresh</div>			

To perform the first two functions, select a client from the list first.

Wake up: Sends a wake up packet to the target client. The target client must support the wake up function.

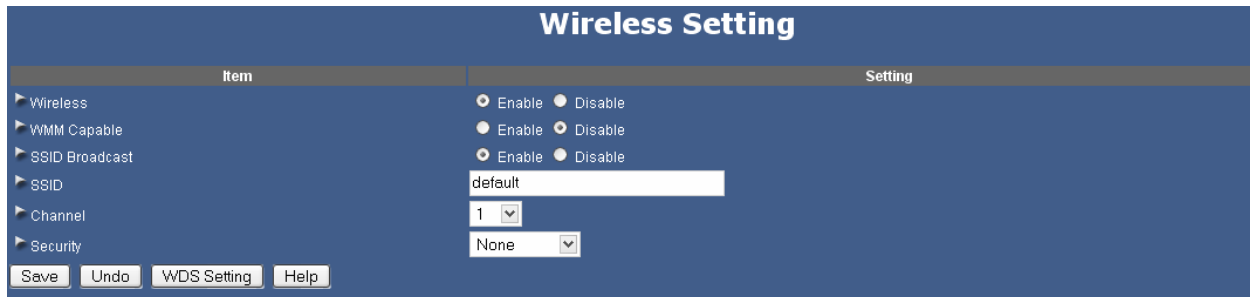
Delete: Deletes the client from the list.

Back: Returns to the previous page.

Refresh: Updates the Clients List.

5.2.3 Wireless

This page allows you to configure the router's wireless security. By default the wireless encryption is disabled. It is recommended that you enable encryption for your wireless connection.



The screenshot shows the 'Wireless Setting' page. On the left is a sidebar with a tree view containing 'Wireless', 'WMM Capable', 'SSID Broadcast', 'SSID', 'Channel', and 'Security'. The 'Wireless' item is selected. The main area has a table with two columns: 'Item' and 'Setting'. The 'Item' column lists 'Wireless', 'WMM Capable', 'SSID Broadcast', 'SSID', 'Channel', and 'Security'. The 'Setting' column shows radio buttons for 'Enable' and 'Disable' for the first three items, a text field with 'default' for 'SSID', a dropdown menu with '1' for 'Channel', and a dropdown menu with 'None' for 'Security'. At the bottom are buttons for 'Save', 'Undo', 'WDS Setting', and 'Help'.

Item	Setting
Wireless	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
WMM Capable	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
SSID Broadcast	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
SSID	default
Channel	1
Security	None

Save Undo WDS Setting Help

Wireless: Enable or Disable the wireless function.

WMM Capable: Wi-Fi Multimedia (WMM) provides basic Quality of service features by prioritizing traffic according to four Access Categories - voice, video, best effort, and background. However, it does not provide guaranteed throughput. It is suitable for simple applications that require QoS, such as Voice over IP (VoIP) on Wi-Fi phones.

SSID Broadcast: Enable or disable broadcasting your SSID to the public

SSID: Type an SSID in the text field. The default SSID is **default**. The SSID of any wireless clients must match the SSID typed here in order for the wireless clients to access the router.

Channel: Select a transmission channel for wireless communications. The channel of any wireless clients must match the channel selected here in order for the wireless clients to access the router.

Security: Select the best encryption method supported by your wireless network adapter. It is recommended that you use **WPA-PSK** with **TKIP** for securing your network. Your passphrase has to be at least eight characters long and can contain both numbers and letters.

5.2.4 Change Password

This page allows you to change the router's login password. It is recommended that you change the login password for extra security.

Change Password

Item	Setting
Old Password	<input style="width: 100%;" type="password"/>
New Password	<input style="width: 100%;" type="password"/>
Reconfirm	<input style="width: 100%;" type="password"/>

Old Password: Enter the current login password.

New Password: Enter the new login password.

Reconfirm: Enter the new login password again.

Click **Save** to save any changes or click **Undo** to cancel any changes.

5.3 Forwarding Rules

5.3.1 Virtual Server

If you want to allow Internet users to access your internal web server or ftp server, you can use the Virtual Server function to open up the ports required to access your internal servers.

Virtual Server

Well known services -- select one --

ID --
Use schedule rule --ALWAYS ON--

ID	Service Ports	Server IP	Enable	Schedule Rule#
1	<input style="width: 100%;" type="text"/>	192.168.1. <input style="width: 50px;" type="text"/>	<input type="checkbox"/>	<input style="width: 50px;" type="text"/>
2	<input style="width: 100%;" type="text"/>	192.168.1. <input style="width: 50px;" type="text"/>	<input type="checkbox"/>	<input style="width: 50px;" type="text"/>
3	<input style="width: 100%;" type="text"/>	192.168.1. <input style="width: 50px;" type="text"/>	<input type="checkbox"/>	<input style="width: 50px;" type="text"/>
4	<input style="width: 100%;" type="text"/>	192.168.1. <input style="width: 50px;" type="text"/>	<input type="checkbox"/>	<input style="width: 50px;" type="text"/>
5	<input style="width: 100%;" type="text"/>	192.168.1. <input style="width: 50px;" type="text"/>	<input type="checkbox"/>	<input style="width: 50px;" type="text"/>
6	<input style="width: 100%;" type="text"/>	192.168.1. <input style="width: 50px;" type="text"/>	<input type="checkbox"/>	<input style="width: 50px;" type="text"/>
7	<input style="width: 100%;" type="text"/>	192.168.1. <input style="width: 50px;" type="text"/>	<input type="checkbox"/>	<input style="width: 50px;" type="text"/>
8	<input style="width: 100%;" type="text"/>	192.168.1. <input style="width: 50px;" type="text"/>	<input type="checkbox"/>	<input style="width: 50px;" type="text"/>
9	<input style="width: 100%;" type="text"/>	192.168.1. <input style="width: 50px;" type="text"/>	<input type="checkbox"/>	<input style="width: 50px;" type="text"/>
10	<input style="width: 100%;" type="text"/>	192.168.1. <input style="width: 50px;" type="text"/>	<input type="checkbox"/>	<input style="width: 50px;" type="text"/>
11	<input style="width: 100%;" type="text"/>	192.168.1. <input style="width: 50px;" type="text"/>	<input type="checkbox"/>	<input style="width: 50px;" type="text"/>
12	<input style="width: 100%;" type="text"/>	192.168.1. <input style="width: 50px;" type="text"/>	<input type="checkbox"/>	<input style="width: 50px;" type="text"/>

Service Ports: Enter the service port you wish to open to the Internet.

Server IP: Enter the LAN IP address of the server you want the Internet users to access.

Enable (check box): Check on this box to open the port.

Use Rule# (optional): Enter the Schedule Rule # you wish to apply to the ID. For more information about using the Schedule Rule #, please see **5.5.6 Schedule Rule**.

Well known services: You can choose from a list of frequently used services to copy the port number to the **Service Ports** field.

Copy to (button): Select the **ID #** (1 ~ 20) you want to paste the service to first and then click on this button to paste the port number to the **Service Ports** field.

Schedule rule: If you have configured any schedule rule, you can select the rule from this list and apply the rule to the specified ID. For more information about using the schedule rule, please see **5.5.6 Schedule Rule**.

Click **Save** to save any changes or click **Undo** to cancel any changes.

5.3.2 Special AP

Some applications require multiple connections, like Internet games, video conferencing, Internet telephony, etc. Because of the router's built-in firewall, these applications cannot work with a pure NAT router. The **Special Applications** feature allows some of these applications to bypass the firewall. If the Special Applications feature fails to make an application work, try setting your computer as a **DMZ** host instead. For more information about setting your computer as a DMZ host, please see **5.3.3 Miscellaneous**.

Special Applications

Popular applications -- select one -- Copy to ID --

ID	Trigger	Incoming Ports	Enable
1	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
2	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
3	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
4	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
5	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
6	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
7	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
8	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
9	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
10	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
11	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
12	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>

Save
Undo
Help

Trigger: Enter the Outbound port number used by the application.

Incoming Ports: Enter the Incoming port number used by the application.

Enable (check box): Check this box to open the ports.

Popular applications: Select from a list of popular applications.

Copy to (button): Select the **ID #** (1 ~ 8) you want to paste the port numbers to first and then click on this button to paste the port numbers to the applicable fields.

Click **Save** to save any changes or click **Undo** to cancel any changes.

5.3.3 DMZ

DMZ (De-Militarized Zone) Host is a host without the protection of the router's firewall. It allows a computer to be exposed to unrestricted two-way communication with the Internet. You should only use this feature when the Special Applications function fails to make an application work.

Warning: Setting your computer as a DMZ host exposes it to various security vulnerabilities. This feature should be used only when needed.

DMZ

Item	Setting	Enable
IP Address of DMZ Host	192.168.1. <input type="text"/>	<input type="checkbox"/>

Save

Undo

Help

IP Address of DMZ Host: Enter the LAN IP address of the computer you wish to set as the DMZ host and check on the **Enable** box.

Click **Save** to save any changes or click **Undo** to cancel any changes.

5.4 Security Setting

5.4.1 Packet Filter

Packet Filter enables you to control which packets are allowed to pass through the router. Outbound filter applies on all outbound packets. However, Inbound filter applies to packets that are destined to Virtual Servers or DMZ host only.

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WIRELESS 3G MOBILE ROUTER

Outbound Packet Filter

Outbound Filter ☐ Enable

☐ Allow all to pass except those match the following rules.
☐ Deny all to pass except those match the following rules.

Use schedule rule: —ALWAYS ON— Copy to ID —

ID	Source IP : Ports	Destination IP : Ports	Enable	Schedule Rule#
1			<input type="checkbox"/>	0
2			<input type="checkbox"/>	0
3			<input type="checkbox"/>	0
4			<input type="checkbox"/>	0
5			<input type="checkbox"/>	0
6			<input type="checkbox"/>	0
7			<input type="checkbox"/>	0
8			<input type="checkbox"/>	0

Previous page Next page

Save Undo Inbound Filter... MAC Level... Help

Outbound Packet Filter is the default packet filter page. To change to Inbound Packet Filter, click on the **Inbound Filter** button.

You can select one of the two filtering policies:

1. Allow all [packets] to pass except those [that] match the specified rules
2. Deny all [packets] to pass except those [that] match the specified rules

Check on the **Enable** box to activate the packet filter function.

You can specify up to 8 filters for each direction. For each rule (ID), you can define the following parameters:

- Source IP address
- Source port address
- Destination IP address

- Destination port address
- Protocol: TCP or UDP or both.
- Use Rule#

For source or destination IP address, you can define a single IP address (192.168.1.100) or a range of IP addresses (192.168.1.100-192.168.1.254). An empty field implies all IP addresses.

For source or destination port, you can define a single port (80) or a range of ports (1000-1999). Add the prefix "T" or "U" to specify TCP or UDP protocol.

For example: T80, U53, or U2000-2999. No prefix indicates both TCP and UDP are defined. An empty field implies all ports.

Packet Filter can work with **Schedule Rule**, allowing precise control of when the filters will be active. For more details about Schedule Rule, please see **5.5.6 Schedule Rule**.

Each rule can be enabled or disabled individually by checking or clearing the corresponding **Enable** box for each rule.

Click **Save** to save any changes or click **Undo** to cancel any changes.

Example of using the Packet Filter:

Suppose you want the local clients in your network with the IP address range of 1.2.3.100–1.2.3.200 to do everything except reading the net news (port 119) and transferring files via FTP (port 21), you would enter the following parameters:

ID	Source IP : Ports	Destination IP : Ports	Enable	Use Rule#
1	1.2.3.100-1.2.3.200	119	<input checked="" type="checkbox"/>	0
2	1.2.3.100-1.2.3.200	21	<input checked="" type="checkbox"/>	0
3			<input type="checkbox"/>	0
4			<input type="checkbox"/>	0
5			<input type="checkbox"/>	0
6			<input type="checkbox"/>	0
7			<input type="checkbox"/>	0
8			<input type="checkbox"/>	0

Schedule rule: (00)Always ID

5.4.2 Domain Filter

Domain Filter lets you prevent users from accessing any specified domain.

ID	Domain Suffix	Action	Enable
1		<input type="checkbox"/> Drop <input type="checkbox"/> Log	<input type="checkbox"/>
2		<input type="checkbox"/> Drop <input type="checkbox"/> Log	<input type="checkbox"/>
3		<input type="checkbox"/> Drop <input type="checkbox"/> Log	<input type="checkbox"/>
4		<input type="checkbox"/> Drop <input type="checkbox"/> Log	<input type="checkbox"/>
5		<input type="checkbox"/> Drop <input type="checkbox"/> Log	<input type="checkbox"/>
6		<input type="checkbox"/> Drop <input type="checkbox"/> Log	<input type="checkbox"/>
7		<input type="checkbox"/> Drop <input type="checkbox"/> Log	<input type="checkbox"/>
8		<input type="checkbox"/> Drop <input type="checkbox"/> Log	<input type="checkbox"/>
9		<input type="checkbox"/> Drop <input type="checkbox"/> Log	<input type="checkbox"/>
10	* (all others)	<input type="checkbox"/> Drop <input type="checkbox"/> Log	-

Domain Filter: Check the **Enable** box to activate the Domain Filter function.

Log DNS Query: Check the **Enable** box to log the action of someone trying to access the specified domain.

Privilege IP Addresses Range: Any IP address that falls between the specified range will be exempt from the domain filter.

Domain Suffix: Enter any domain suffix you wish to filter. For example: something.com

Action: You can choose to **Drop** (block) and/or **Log** the action of someone trying to access a domain that matches the specified filter.

Enable (check box): Check the box to enable each filter.

Click **Save** to save any changes or click **Undo** to cancel any changes.

5.4.3 URL Blocking

URL Blocking will block the local computers from accessing pre-defined web sites. The main difference between Domain filter and URL Blocking is that Domain filter requires you to input a suffix like .com or .org, etc., while URL Blocking only requires you to input a keyword. In other words, Domain filter can block a specific web site, while URL Blocking can block hundreds of web sites that contain the specified keyword.

The screenshot shows the configuration interface for the AIRLINK 101 Wireless 3G Mobile Router. The left sidebar contains a navigation menu with the following items: Status, Wizard, Basic Setting, Forwarding Rules, Security Setting (with sub-items: Packet Filters, Domain Filters, URL Blocking, MAC Control, and Miscellaneous), Advanced Setting, and Toolbox. The 'URL Blocking' item is highlighted with a red box. The main content area is titled 'Http URL Blocking' and features a table with columns 'Item' and 'Setting'. Under the 'Item' column, there is a sub-section for 'URL Blocking' with an 'Enable' checkbox. Below this, there is a table with three columns: 'ID', 'URL', and 'Enable'. The table contains five rows, each with an ID from 1 to 5, an empty URL input field, and an unchecked 'Enable' checkbox. At the bottom of the table, there are three buttons: 'Save', 'Undo', and 'Help'. A 'Log out' button is located in the bottom left corner of the interface.

ID	URL	Enable
1		<input type="checkbox"/>
2		<input type="checkbox"/>
3		<input type="checkbox"/>
4		<input type="checkbox"/>
5		<input type="checkbox"/>

URL Blocking: Check the **Enable** box to activate the URL Blocking function.

URL: Enter a keyword in this field. If any part of the web site's URL matches the keyword, the connection will be blocked. For example, you can specify the keyword "something" to block access to all the web sites that have the word "something" in their URLs.

Enable (check box): Check the box to enable each filter.

Click **Save** to save any changes or click **Undo** to cancel any changes.

5.4.4 MAC Address Control

MAC Address Control allows you to assign different access rights for different users and to assign a specific IP address to a certain MAC address.

The screenshot shows the 'MAC Address Control' configuration page for the AIRLINK 101 Wireless 3G Mobile Router. The interface includes a sidebar with navigation options and a main content area with settings and a table.

MAC Address Control Settings:

- MAC Address Control:** ☒ Enable
- Connection control:** ☐ Wireless and wired clients with **C** checked can connect to this device; and **allow** unspecified MAC addresses to connect.
- Association control:** ☐ Wireless clients with **A** checked can associate to the wireless LAN; and **deny** unspecified MAC addresses to associate.

DHCP clients: -- select one -- **Copy to** ID -- --

ID	MAC Address	IP Address	Wake On Lan	C	A
1		192.168.1.	Trigger	<input type="checkbox"/>	<input type="checkbox"/>
2		192.168.1.	Trigger	<input type="checkbox"/>	<input type="checkbox"/>
3		192.168.1.	Trigger	<input type="checkbox"/>	<input type="checkbox"/>
4		192.168.1.	Trigger	<input type="checkbox"/>	<input type="checkbox"/>

Buttons: Previous page, Next page, Save, Undo, Help

MAC Address Control: Check the **Enable** box to activate the MAC Address Control function.

Connection control (check box): Check this box to specify which clients are allowed or denied connection to the router. When this box is checked, the clients listed in the MAC Address table with the C box checked will be subject to the Connection control setting. Choose **allow** to allow those clients with the C box checked to connect to the router. Choose **deny** to deny those clients with the C box checked from accessing the router.

MAC Address: Enter the MAC Address of the client.

IP Address: Enter the IP Address of the client.

C (check box): Check this box to make the client obey the Connection control rule.

DHCP clients: Any DHCP client that is currently connected to the router will be listed here. You can choose any client from the list then select the ID # you wish to paste the information to and click the **Copy to** button. All the information will be pasted to the specified ID #.

Previous and Next (buttons): There are a total of 32 IDs you can apply to the MAC Address Table. Click on the **Previous** or **Next** button to view the previous or next page.

Click **Save** to save any changes or click **Undo** to cancel any changes.

5.4.5 Miscellaneous Items

Item	Setting	Enable
Remote Administrator Host/Port	0.0.0.0 / 80	<input type="checkbox"/>
Administrator Time-out	600 seconds (0 to disable)	<input type="checkbox"/>
Discard PING from WAN side		<input type="checkbox"/>
Disable UPnP		<input type="checkbox"/>
Disable SPI		<input type="checkbox"/>
Disable VPN pass through		<input type="checkbox"/>

Save Undo Help

Log out

Remote Administrator Host/Port: In general, only local users can browse the router's built-in web configuration utility to perform administration tasks. Remote Administration enables you to perform administrative tasks from remote host.

If this feature is enabled, only the host with the specified IP address can perform remote administration. If the specified IP address is 0.0.0.0, any host can connect to the router to perform administrative tasks. You can use subnet mask bits "/nn" notation to specify a group of trusted IP addresses. For example: 10.1.2.0/24.

Note: When Remote Administration is enabled, the web server port will be shifted to 88. You can change web server port to other ports, too.

Administrator Time-out: Idle time to wait (in seconds) before logging out automatically. Set it to zero to disable this feature.

Discard PING from WAN side: When this feature is enabled, any host on the WAN (Internet side) cannot ping the router.

Disable UPnP: In some cases, UPnP can have a negative effect on some web applications. If you need to disable it, you can do that here.

Disable SPI: SPI can slow some web applications due to the higher level of security that it provides. Disabling SPI will help in these situations. One example of an application that will benefit from having SPI Disabled is VoIP phones/modems.

Disable VPN pass through: You can disable VPN pass through here.

Click **Save** to save any changes or click **Undo** to cancel any changes.

5.5 Advanced Settings

5.5.1 System Time

This page allows you to configure the system time of your router.

The screenshot shows the 'System Time' configuration page for the AIRLINK 101 router. The page is divided into a sidebar and a main content area. The sidebar on the left contains a list of navigation links: Status, Wizard, Basic Setting, Forwarding Rules, Security Setting, Advanced Setting (with sub-links for System Log, Dynamic DNS, SNMP, Routing, System Time, Scheduling, and Performance), and Toolbox (with a Log out button). The 'System Time' link under Advanced Setting is highlighted with a red box. The main content area has a blue header with the AIRLINK 101 logo and 'networkingsolutions' text. Below the header, the title 'System Time' is centered. The configuration options are organized into three sections, each with a radio button: 'Get Date and Time by NTP Protocol' (selected), 'Set Date and Time using PC's Date and Time', and 'Set Date and Time manually'. The NTP section includes a 'Sync Now!' button, a 'Time Server' dropdown set to 'time.nist.gov', and a 'Time Zone' dropdown set to '(GMT-08:00) Pacific Time (US & Canada)'. The PC section includes a 'PC Date and Time' text field showing 'Thursday, July 12, 2007 2:09:24 AM'. The manual section includes dropdowns for Year (2002), Month (Jan), and Day (1), and input fields for Hour (0), Minute (0), and Second (0). There is also a 'Daylight Saving' section with 'Enable' and 'Disable' radio buttons, and 'Start' and 'End' date pickers. At the bottom are 'Save', 'Undo', and 'Help' buttons.

Get Date and Time by NTP Protocol: Select this option if you want to obtain the time from a Network Time Server.

Time Server: Select the time server you want to sync with.

Time Zone: Select your time zone.

Click the **Sync Now!** button to obtain the time from the selected time server.

Set Date and Time using PC's Date and Time: Select this option if you want to obtain the time from your PC.

PC Date and Time: Displays your PC's current date and time.

Set Date and Time manually: Select this option if you want to manually set the date and time.

Date: Manually set the **Year**, **Month**, and **Date**.

Time: Manually set the **Hour**, **Minute**, and **Second**.

Click **Save** to save any changes or click **Undo** to cancel any changes.

5.5.2 System Log

This page allows you to export the system logs to specific destination by means of syslog (UDP) and SMTP (TCP).

Item	Setting	Enable
IP Address for Syslogd	192.168.1. [input field]	<input type="checkbox"/>
E-mail Alert		<input type="checkbox"/>
▶ SMTP Server IP and Port	[input field]	
▶ E-mail From:	[input field]	
▶ Send E-mail to	[input field]	
▶ E-mail Subject	[input field]	
▶ User name	[input field]	
▶ Password	[input field]	

IP Address for Syslogd: Enter the destination IP Address where the syslogd will be sent. Be sure to check the **Enable** box. (This is for use with linux/unix based network environments only)

SMTP Server IP and Port: Input the SMTP server IP and port. If you do not specify a port number, the default value (25) is used. You can get this information from your internet service provider.

E-mail From: Enter the email address you want to appear in the “From” box in your email alert.

Send E-mail to: Enter the email address where you would like your email alerts sent.

E-Mail Subject: Enter what you would like to appear in the subject of your email alerts.

Username and Password: Enter the username and password for your outgoing email account. You can get this information from your internet service provider.

View Log (button): Displays the system log.

Click **Save** to save any changes or click **Undo** to cancel any changes.

5.5.3 Dynamic DNS

Dynamic DNS allows any user who wishes to access your server to reach it by a registered DNS name instead of an IP address. Before you enable **Dynamic DNS**, you need to register an account with one of the Dynamic DNS servers listed in the **Provider** field.

Item	Setting
DDNS	<input checked="" type="radio"/> Disable <input checked="" type="radio"/> Enable
Provider	DynDNS.org(Dynamic) ▼
Host Name	
Username / E-mail	
Password / Key	

Save Undo Help

DDNS: Choose to enable or disable DDNS.

Provider: Select the DDNS provider that you registered the account with.

Enter your **Host Name**, **Username**, and **password** for the DDNS account in the respective fields.

Click **Save** to save any changes or click **Undo** to cancel any changes.

5.5.4 SNMP

Item	Setting
Enable SNMP	<input type="checkbox"/> Local <input type="checkbox"/> Remote
Get Community	<input type="text"/>
Set Community	<input type="text"/>
IP 1	0.0.0.0
IP 2	0.0.0.0
IP 3	0.0.0.0
IP 4	0.0.0.0
SNMP Version	<input checked="" type="radio"/> V1 <input type="radio"/> V2c

Save Undo Help

Enable SNMP: select to enable SNMP for local and/or remote segments.

Get Community: Enter the desired community

Set Community: Enter the desired community

5.5.5 Routing

The Routing Table allows you to set which network interface address to use for outgoing IP data grams. If you have more than one router and subnet, you will need to configure the routing table to direct the packets to follow the proper routing path so different subnets can communicate with each other.

WIRELESS 3G MOBILE ROUTER

Routing Table

☐ RIP ☐ Enable ☐ RIPv1 ☐ RIPv2

ID	Destination	Subnet Mask	Gateway	Hop	Enable
1					<input type="checkbox"/>
2					<input type="checkbox"/>
3					<input type="checkbox"/>
4					<input type="checkbox"/>
5					<input type="checkbox"/>
6					<input type="checkbox"/>
7					<input type="checkbox"/>
8					<input type="checkbox"/>

Save Undo Help

You can specify up to 8 routing rules. Enter the destination IP address, subnet mask, gateway, and the hop required for each rule. Check the **Enable** box to activate the rule.

Click **Save** to save any changes or click **Undo** to cancel any changes.

5.5.6 Scheduling

The Scheduling allows you to set the time when certain services will be on or off. Scheduling works in conjunction with Virtual Server and Packet Filter to determine when these services will be active or inactive.

The screenshot shows the 'Schedule Rule' configuration page. On the left is a navigation menu with options: Status, Wizard, Basic Setting, Forwarding Rules, Security Setting, Advanced Setting (with sub-items: System Log, Dynamic DNS, SNMP, Routing, System Time, **Scheduling**, Performance), and Toolbox. The 'Scheduling' option is highlighted with a red box. The main content area has a title 'Schedule Rule' and a table with two columns: 'Item' and 'Setting'. The 'Item' column contains 'Schedule' and the 'Setting' column contains an 'Enable' checkbox. Below this is a table with columns 'Rule#', 'Rule Name', and 'Action'. At the bottom of the main area are buttons for 'Save', 'Add New Rule...', and 'Help'. A 'Log out' button is located at the bottom left of the navigation menu.

Schedule: Check the **Enable** box to activate the Schedule Rule function.

Click on **Add New Rule** button to add a new schedule rule.

The screenshot shows the 'Schedule Rule Setting' configuration page. The navigation menu is the same as in the previous screenshot, with 'Scheduling' highlighted. The main content area has a title 'Schedule Rule Setting'. It features a table with columns 'Item' and 'Setting'. The 'Item' column contains 'Name of Rule 1' and a text input field. Below this is a table with columns 'Week Day', 'Start Time (hh:mm)', and 'End Time (hh:mm)'. The 'Week Day' column lists Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, and Every Day. The 'Start Time' and 'End Time' columns each have a 2x4 grid of input fields for hours, minutes, and seconds. At the bottom of the main area are buttons for 'Save', 'Undo', 'Help', and 'Back'. A 'Log out' button is located at the bottom left of the navigation menu.

Name of Rule: Enter a descriptive name for the new rule.

Set the day and time that the rule applies to. In the above example, the rule is called ftp time, and it is set to be active everyday from 14:00 ~ 18:00 (2:00 pm ~ 6:00 pm).

Click **Save** to save any changes or click **Undo** to cancel any changes.

Once you have created the new rule, you can call up this rule from the Virtual Server and Packet Filter page and apply the schedule rule to any IDs in the Virtual Server or Packet Filter page.

Example of using the Schedule Rule with Virtual Server:

Suppose you've set up a FTP server in the Virtual Server page, but you only want users to access the FTP server everyday between the hours of 2:00 pm to 6:00 pm. First create the schedule rule with the desired parameters, then go to the Virtual Server page and select the rule from the Schedule Rule drop-down menu.

Virtual Server

ID	Service Ports	Server IP	Enable	Use Rule#
1	21	192.168.1.32	<input checked="" type="checkbox"/>	1
2		192.168.1.	<input type="checkbox"/>	0
3		192.168.1.	<input type="checkbox"/>	0
4		192.168.1.	<input type="checkbox"/>	0
5		192.168.1.	<input type="checkbox"/>	0
6		192.168.1.	<input type="checkbox"/>	0
7		192.168.1.	<input type="checkbox"/>	0
8		192.168.1.	<input type="checkbox"/>	0
9		192.168.1.	<input type="checkbox"/>	0
10		192.168.1.	<input type="checkbox"/>	0
11		192.168.1.	<input type="checkbox"/>	0
12		192.168.1.	<input type="checkbox"/>	0
13		192.168.1.	<input type="checkbox"/>	0
14		192.168.1.	<input type="checkbox"/>	0
15		192.168.1.	<input type="checkbox"/>	0
16		192.168.1.	<input type="checkbox"/>	0
17		192.168.1.	<input type="checkbox"/>	0
18		192.168.1.	<input type="checkbox"/>	0
19		192.168.1.	<input type="checkbox"/>	0
20		192.168.1.	<input type="checkbox"/>	0

Well known services: FTP (21) ID: 1

Schedule rule: (01)ftp time
 (00)Always
 (01)ftp time

Save Undo Help

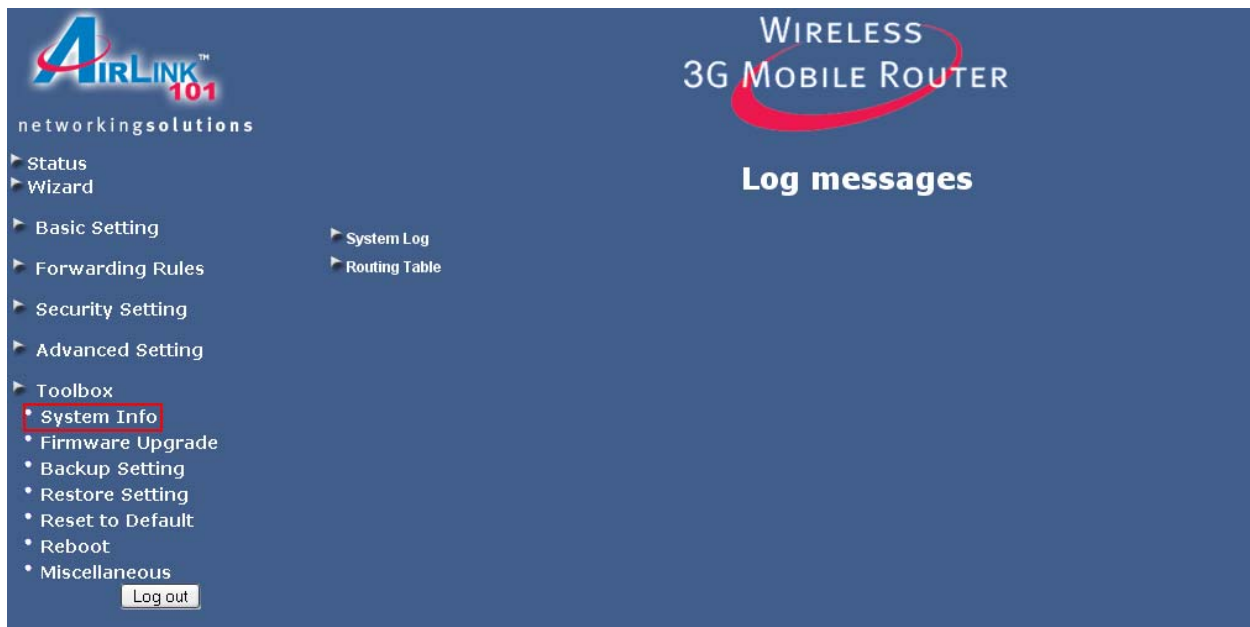
Now the Virtual Server for the FTP service will only be active from the hours 2:00 pm to 6:00 pm as specified in the schedule rule, (01)ftp time.

You can follow the same principle in applying the schedule rule to the packet filters.

5.6 Toolbox

5.6.1 System Info

This page allows you to view the System Log and Routing Table.



5.6.2 Firmware Upgrade

This page allows you to update the router's firmware.

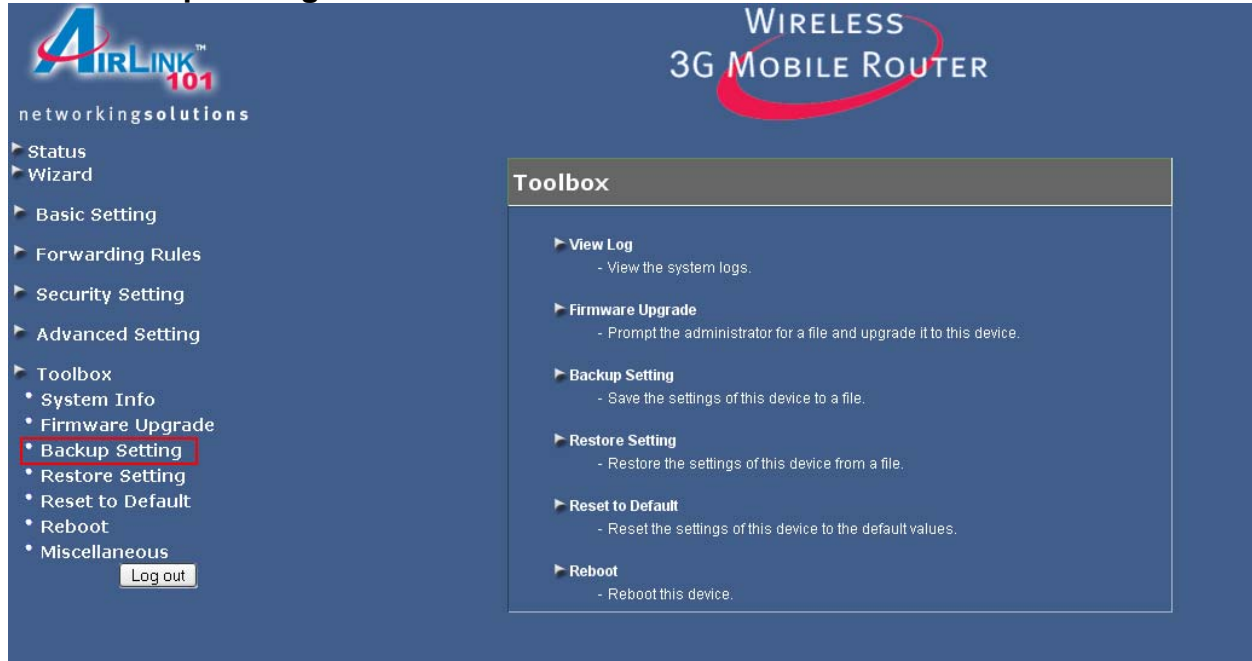
The screenshot shows the web interface of an AirLink 101 Wireless 3G Mobile Router. The page has a dark blue header with the 'AIRLINK 101' logo on the left and 'WIRELESS 3G MOBILE ROUTER' on the right. Below the header is a sidebar menu with options: Status, Wizard, Basic Setting, Forwarding Rules, Security Setting, Advanced Setting, Toolbox, System Info, **Firmware Upgrade** (highlighted with a red box), Backup Setting, Restore Setting, Reset to Default, Reboot, and Miscellaneous. A 'Log out' button is at the bottom of the sidebar. The main content area is titled 'Firmware Upgrade' and contains a 'Firmware Filename' input field with a 'Browse...' button. Below this, a message states: 'Current firmware version is R7.00a7 . The upgrade procedure takes about 140 seconds. Note! Do not power off the unit when it is being upgraded. When the upgrade is done successfully, the unit will be restarted automatically.' At the bottom of the main area are 'Upgrade' and 'Cancel' buttons.

1. Download the latest firmware from www.airlink101.com web site.
2. Click the **Browse** button to locate the firmware. Be sure to unzip the file first.
3. Click on **Upgrade**.
4. Wait for the upgrade process to complete.

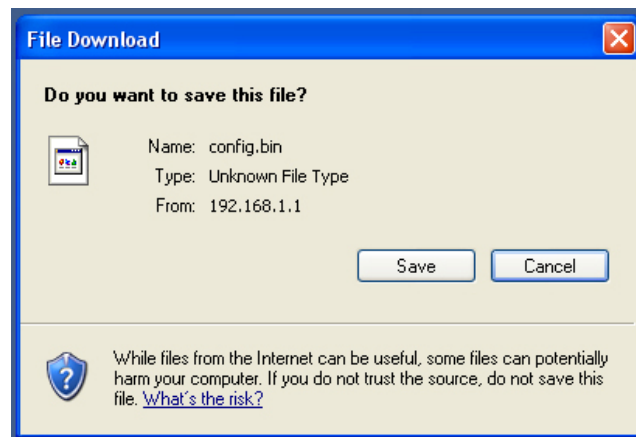
5.6.3 Backup Setting

Once you have configured all of the router's settings, you can backup the settings as a file on your hard drive. (The file will be named **config.bin**).

Click **Backup Setting**



Save the configuration file to a location on your hard drive.

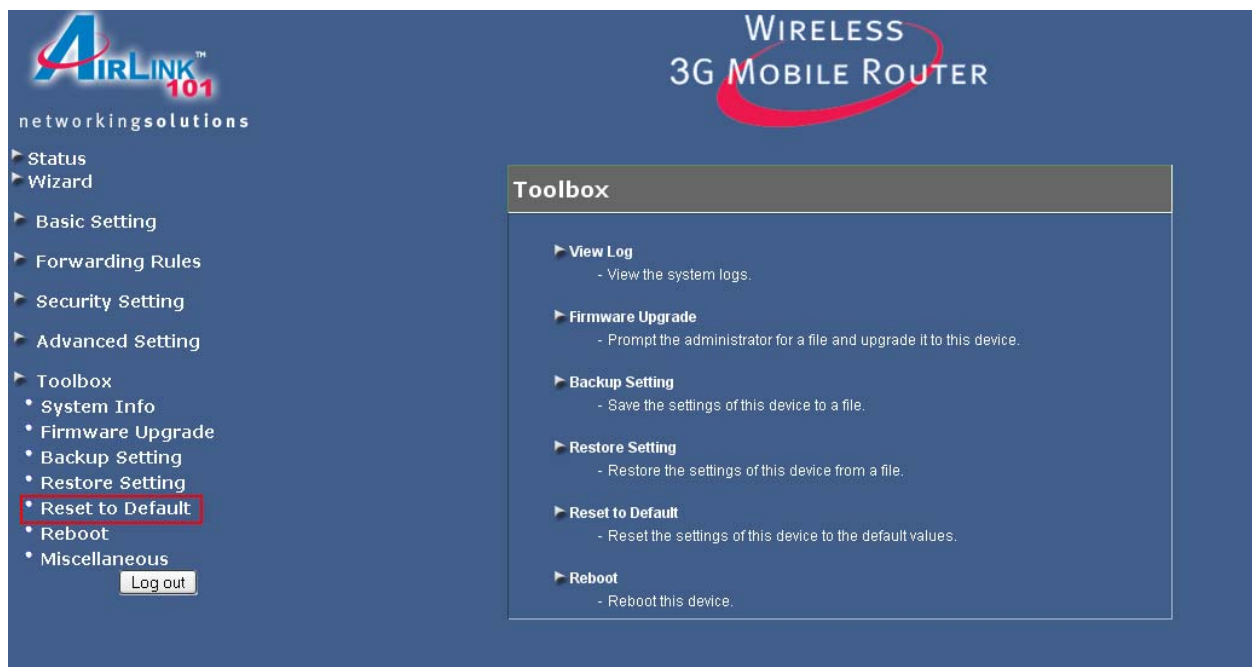


To load a previously saved configuration file into the router, click on **Restore Setting** and select the file containing your settings.



5.6.4 Reset to Default

Click **Reset to Default** to reset all of the router's settings to their original values.

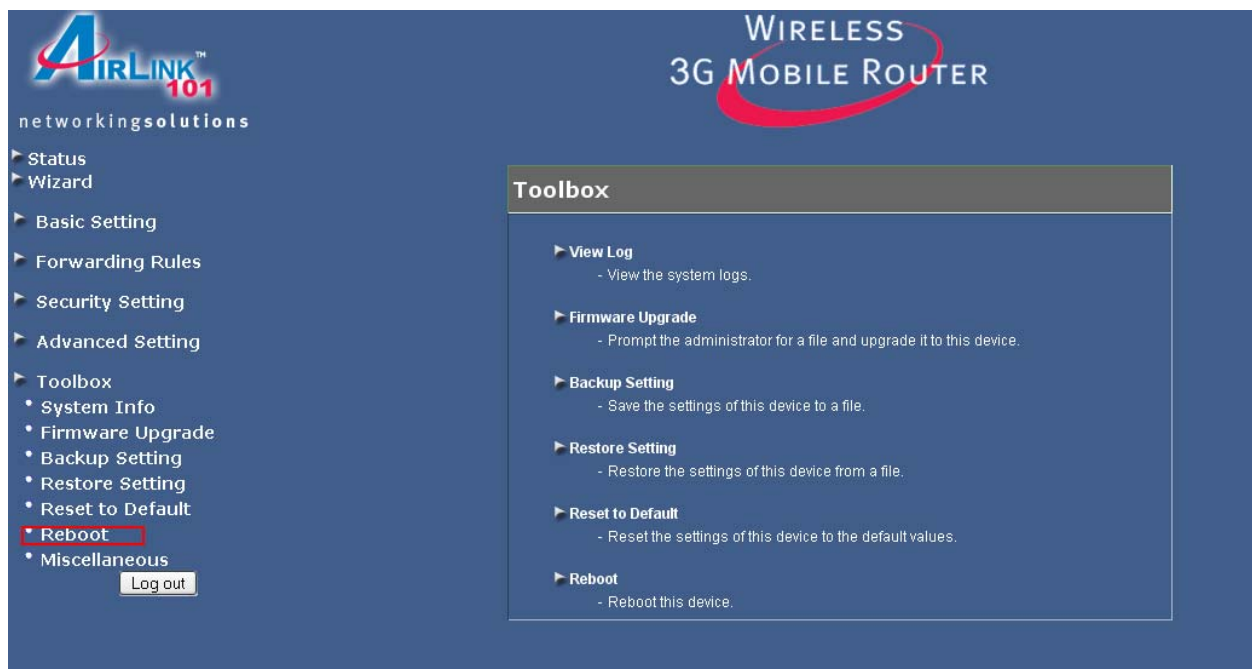


Click **OK** to restore all settings to factory default.

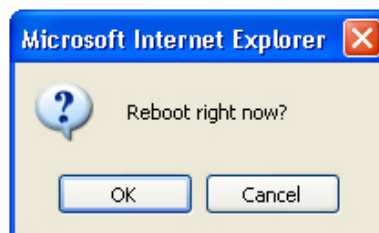


5.6.5 Reboot

Click **Reboot** to reboot the router.



Click **OK** to reboot the router.



5.6.6 Miscellaneous



Wake-on-LAN is a technology that enables you to power up a network device remotely. In order to use this feature, the target device must be Wake-on-LAN enabled and you have to know the MAC address of the device, i.e. 00-11-22-33-44-55.

Clicking the **Wake up** button will make the router send a wake-up frame to the target device immediately.

6. Troubleshooting

For 3G Users Only

Verify with your internet service provider to make sure that you are in a geographic area that allows you to receive a 3G signal.

Also test your 3G card in a computer to make sure that the 3G card works properly and is receiving a useable signal.

Make sure that the card is properly inserted in the router and that all lights on the 3G card that should be lit are lit.

For Cable Modem Users Only

Step 1 Go to the router's Setup Wizard.

Step 2 At the Cable Modem setting (**Dynamic IP Address**), click on the **Clone MAC** button and click **Next**.

LAN IP Address	192.168.1.1
Host Name	(optional)
WAN's MAC Address	FF-FF-FF-FF-FF-FF
Clone MAC	

Step 3 Proceed through the rest of the setup.

Step 4 Verify the **Connection Status** as described in **Section 4**.

For DSL Users Only

Step 1 Go to the router's Setup Wizard.

Step 2 At the **PPPoE** setting, double-check the spelling of your **Account name** and **Password**. Some ISPs require you to include the domain name along with your account name in the **Account Name** field.

Example: username@sbcglobal.net

Step 3 Complete the Setup Wizard and verify the **Connection Status** as described in **Section 4**.

For Cable Modem and DSL Users

Step 1 Power off the Cable/DSL modem, router, and computer and wait for **5 minutes**.

Step 2 Turn on the Cable/DSL modem and wait for the lights on the modem to settle down.

Step 3 Turn on the router and wait for the lights on the router to settle down.

Step 4 Turn on the computer.

Step 5 Redo the Setup Wizard.

Step 6 Verify the Connection Status as described in **Section 4**.

Appendix – Specifications

Standards

- IEEE 802.11b , 802.11g
- IEEE 802.3, 802.3u
- IEEE 802.3x Flow Control support for Full-Duplex mode

Frequency Range

- 2.4 ~ 2.483GHz

WAN Type

- DHCP, PPPoE
- 3G
- Static
- L2TP, PPTP

Channel

- 11 Channels in America
- 13 Channels in Europe
- 14 Channels in Japan

Security

- WEP(64/128bit), WPA-PSK
- WPA/WPA2, TKIP, AES
- Stealth AP (Hidden ESSID, Deny any Access)
- MAC address filtering

Data rate

- 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1Mbps auto fallback

LED

- Status
- WAN
- WLAN
- LAN * 1

Interface

- WAN: 1 x 10/100Mbps BaseT port
- LAN: 1 x 10/100Mbps BaseT port
- Reset button
- Power
- 3G PC card slot

Power

- External adapter: 5VDC / 3A

3G Card Supported

- WCDMA
 - 1) E 620
 - 2) AirCard 850/860(Cingular)
 - 3) GC83
- EVDO
 - 1) PC5740 (Verizon)
 - 2) PX-500 (Sprint)

Dimensions

- 129 x 124 x 32mm (L x W x H)

Operation Environment

- Temperature: 0°C to 50°
- Humidity: 20% to 95% non-condensing

Warranty

- Limited 1-year warranty

Certification

- CE, FCC

Technical Support

E-mail: support@airlink101.com

Toll Free: 1-888-746-3238

Web Site: www.airlink101.com

*Theoretical maximum wireless signal rate based on IEEE standard 802.11g specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, mix of wireless products used, radio frequency interference (e.g., cordless telephones and microwaves) as well as network overhead lower actual data throughput rate.

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